

Title: Plant Helper
PG: 005
Status: Civil Service
Position Reports to: Power Production Foreman
Department: Electric

Class Code: 8050
Date: 10/09

GENERAL DESCRIPTION OF CLASS:

This is entry level work assisting in the operation or maintenance of a steam electric power plant in one of the several different areas in either operations (Power, Water, Material Handling), or plant maintenance (Mechanical, electrical, instrument & control). An employee in this classification works directly under the supervision of the Power Production Foreman/Operations at both Larsen Plant and McIntosh Plant. Work may involve operating heavy duty power generating equipment, assisting in the operation of environmental systems in a steam electric generating plant involving water quality, operating plant systems and/or heavy duty mobile equipment as it relates to environmental systems. Work may also involve a variety of functions related to the installation, calibration, maintenance, operation, and repair of various types of equipment used in a large electric power plant.

ESSENTIAL FUNCTIONS:

1. Within power operations, performs regular hourly checks on burner systems, pumps, air compressors, motors, heaters, coolers, hydrogen systems, fuel gas, fuel oil, RDF fuel, boilers, turbine generators, combustion turbines, FGD systems, and associated equipment in a large multi-fuel burning power plant.
2. Within water operations performs hourly equipment and system parameter checks on any of the following systems or areas: demineralizers, cooling tower, water treatment plant, processed water treatment systems, and boiler water chemical feed system.
3. Within material handling, performs hourly equipment and systems parameter checks on any of the following systems or areas: refuse processing, coal handling, conversion system, landfill operation, and operates various pieces of large heavy duty mobile equipment.
4. Helps maintain plant equipment and assists in the installation, adjustment, trouble shooting, calibration, maintenance and repair of various types of equipment used in a large electric power plant.

ADDITIONAL RESPONSIBILITIES:

1. Performs related work as required.

KNOWLEDGE, SKILLS, & ABILITIES:

1. Some knowledge of the principles of the principles of electric theory.
2. Skill in the use of hand tools and testing devices used in electrical work
3. Skill in the use of hand tools and machine shop equipment.
4. Ability to follow oral and written instructions.
5. Ability to communicate effectively, both verbally and in writing.
6. Ability to learn the occupational hazards and safety precautions of plant work.
7. Ability to learn the principles of electrical power generation.
8. Ability to establish and maintain effective working relationships with supervisor, other City employees and the general public.
9. Ability to make minor and emergency repairs to boilers, conveyors, pumps, etc.
10. Ability to anticipate and react quickly to emergency conditions.
11. Ability to read and understand operating instructional manuals.
12. Ability to learn the methods, materials, tools, and standard practices used in the mechanical trades.
13. Ability to learn the inter-relationships between the various plant machines and equipment and the effect of faulty operation each has on the system.

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14. Ability to learn the methods, materials and tools used in electrical construction and maintenance work.
15. Ability to learn the principles of electrical theory as applied to electrical circuits and wiring systems.
16. Ability to learn to adjust, test, and repair various types of electrical meters and other equipment.

WORKING ENVIRONMENT/CONDITIONS:

Requires heavy manual work that involves walking or standing some of the time, exerting up to 100 pounds of force on a recurring basis.

The job risks exposure to adverse weather conditions, electrical shock, moving machinery, toxic, noxious fumes, vibration, wet, humid conditions, dusts, pollen, extreme noise levels, and bright/dim light.

The job requires normal visual acuity, and field of vision, hearing, speaking, color perception, sense of smell, depth perception, and texture perception.

QUALIFICATIONS (EDUCATION, TRAINING, AND EXPERIENCE):

1. High school diploma or its equivalent.
2. An equivalent combination of education and experience that is determined to be directly related to the foregoing specific requirements may be substituted.

SPECIAL REQUIREMENTS:

1. Must possess a valid state of Florida driver's license.
2. Must maintain a valid home telephone number.
3. May be required to pass and maintain qualification for:
 - a. Respiratory Protection Physical
 - b. Pulmonary Function
 - c. Qualitative and Quantitative Fit Test(s)
4. May be required to work overtime, or alternate hours, as necessary for the efficient operation of the department. Position may be designated as Mission Critical by Department Director.